Author Index of Volume 78

Adachi, Y., 129
Adams, M.J., 5
Adler, J., 191
Anderson, D.L., 15

Baron, T., 25, 33, 43
Bénoni, D., 33
Berbner, S., 273
Bouillard, J.X., 99
Briens, C.L., 25, 33, 43
Buchanan, J.S., 281

Chan, D.Y.C., 263
Cheng, C.-H., 15
Chhabra, R.P., 77
Chong, Y.O., 287
Cui, F., 151

Dearden, E.W., 287
Dirige, G.E., 137
Duchesne, E., 33

Filio, J.M., 121

Gautam, M., 91, 221
Guedon, M.O., 25, 43

Haaker, G., 213
Hall, J.S., 247
Hancock, D., 191
Hasegawa, M., 159
Hatano, H., 115
Heckenberg, N.R., 287
Hino, T., 151
Hogue, C., 51
Hughes, B.D., 263

Islam, M.N., 85

Kamiko, M., 129
Kanamori, S., 165
Kanda, Y., 159
Karabin, M.E., 67
Kaufman, E.N., 239
Kavanagh, P.E., 231
Kawashima, Y., 151
Kido, N., 115
Kiuchi, K., 151
Knowlton, T.M., 25, 33, 43
Kusakabe, K., 173

Li, H., 175, 181
Liffman, K., 263
Löffler, F., 273

Ma, X., 175
Malos, J., 287
Matchett, A.J., 197
Matsubara, T., 109
Matzen, R., 85
Mei, J.S., 221
Meloy, T.P., 257
Morooka, S., 173
Mullier, M.A., 5

Nacht, S., 15
Newland, D., 51
Niwa, T., 151
Nolan, G.T., 231

Riviello, Jr., A.E., 19
Rudolph, V., 287

Saito, F., 121
Sasaki, H., 137
Sato, K., 143
Schoennagel, H.J., 281
Scott, T.C., 239
Sebba, F., 19
Senna, M., 143
Seville, J.P.K., 5
Shibata, K., 165
Srinivasa Kannan, C., 203
Subba Rao, S., 203
Sugimoto, T., 137
Sugiyama, K., 121

Takeuchi, H., 115, 151
Tarshan, M., 257
Tsutsumi, A., 165

Van Kuik, P., 197
Van Leeuwenstijn, P.L.L., 213
Van Wijk, L.A., 213
Varma, Y.B.G., 203
Venu Madhav, G., 77

Wada, Y., 109
Wang, P.T., 67
Waseda, Y., 121
Williams, M.C., 257

Xia, Y., 175

Yamaki, T., 173
Yang, H., 91, 221
Yoshida, K., 165
Young, D., 19
Yu, A.B., 247
Yui, M., 165

Zou, B., 175

Elsevier Sequoia

Subject Index of Volume 78

Acicular particle
acicular particle orientation in a shear-centrifuge filter, 143
Adhesion
influence of high temperatures on particle adhesion, 273
Agglomerate strength
agglomerate strength measurement using a uniaxial confined compression test, 5
Agglomeration
a study on talc ground by tumbling and planetary ball mills, 121
Aluminum powder
evolution of porosity during thin plate rolling of powder-based porous aluminum, 67
Arching
mechanics of arching in a moving-bed standpipe with interstitial gas flow, 181

Bioreactor
in situ visualization of coal particle distribution in a liquid fluidized bed using fluorescence microscopy, 239
Burr mill
a comparative study of stone plate burr mill and steel plate burr mill in wheat grinding, 85

Centrifugal-shear filter
acicular particle orientation in a shear-centrifuge filter, 143
Circulating fluidized beds riser
gas velocity distribution in a circular circulating fluidized bed riser, 221
Cluster
cluster structure in a circulating fluidized bed, 175
Coal
in situ visualization of coal particle distribution in a liquid fluidized bed using fluorescence microscopy, 239
Coal–oil mixtures
shear viscosity behavior of flocculated suspensions, 165
Cohesion
influence of high temperatures on particle adhesion, 273
Compressibility
improvements in flowability and compressibility of pharmaceutical crystals for direct tabletting by spherical crystallization with a two-solvent system, 151
Compression test
agglomerate strength measurement using a uniaxial confined compression test, 5
Computer modelling
NMR imaging and hydrodynamic analysis of neutrally buoyant non-Newtonian slurry flows, 99
Computer simulation
efficient computer simulation of moving granular particles, 51
Crystallization
improvements in flowability and compressibility of pharmaceutical crystals for direct tabletting by spherical crystallization with a two-solvent system, 151

Differential scanning calorimetry
pseudopolymorphism and lubricating properties of magnesium stearate, 109
Distance transform function
advantages of using a distance transform function in the measurement of fractal dimensions by the dilation method, 191
Distribution
gas velocity distribution in a circular circulating fluidized bed riser, 221
Dynamic population balance model
assessment of numerical solution approaches to the inverse problem for grinding systems: Dynamic population balance model problems, 257

Emulsion
surface modification of fine inorganic powders by wet grinding with soapless emulsion polymerization, 159
Enthalpy
pseudopolymorphism and lubricating properties of magnesium stearate, 109
Entrainment
a procedure to determine particle agglomeration in a fluidized bed and its effect on entrainment, 33

Filtration
influence of high temperatures on particle adhesion, 273
Fine grinding
a study on talc ground by tumbling and planetary ball mills, 121
Fineness modulus
a comparative study of stone plate burr mill and steel plate burr mill in wheat grinding, 85
Fine powders
packing of fine powders subjected to tapping, 247
Flocculated suspension
shear viscosity behavior of flocculated suspensions, 165
Flocs
sedimentation of a polystyrene latex floc, 129
Flowability
improvements in flowability and compressibility of pharmaceutical crystals for direct tabletting by spherical crystallization with a two-solvent system, 151
Flow characteristics
flow characteristics of loosely compacted macroporous microsponge® polymeric systems, 15
Flow structure
microscope visualization of solid particles in circulating fluidized beds, 115
Fluidized beds
intermittent injection of prepolymer in a pressurized fluidized bed, 25
a procedure to determine particle agglomeration in a fluidized bed and its effect on entrainment, 33
intermittent discharge of powder from a pressurized fluidized bed of polyethylene powder, 43
microscope visualization of solid particles in circulating fluidized beds, 115
cluster structure in a circulating fluidized bed, 175
a study of stable range of operation in multistage fluidised beds, 203

in situ visualization of coal particle distribution in a liquid fluidized bed using fluorescence microscopy, 239
Fluidized catalytic cracking
moving cup particulates feeder used in laboratory FCC unit, 281
Fluorescence microscopy
in situ visualization of coal particle distribution in a liquid fluidized bed using fluorescence microscopy, 239
Fractal dimensions
advantages of using a distance transform function in the measurement of fractal dimensions by the dilation method, 191

Gas flow
mechanics of arching in a moving-bed standpipe with interstitial gas flow, 181
Gas–solid flow
gas–solid flow in a novel standpipe, 91
Gas velocity
gas velocity distribution in a circular circulating fluidized bed riser, 221
Glass bead column bed
separation and classification of fine hematite particles using a glass bead column bed, 137
Granular particles
efficient computer simulation of moving granular particles, 51
Grinding
a comparative study of stone plate burr mill and steel plate burr mill in wheat grinding, 85
assessment of numerical solution approaches to the inverse problem for grinding systems: Dynamic population balance model problems, 257

Hausner ratio
flow characteristics of loosely compacted macroporous microsponge® polymeric systems, 15
Hematite particles
separation and classification of fine hematite particles using a glass bead column bed, 137

Image analysis
advantages of using a distance transform function in the measurement of fractal dimensions by the dilation method, 191
Industrial fluidized beds
initial tests on a microwave monitor for industrial fluidized beds, 287
Injection jet
intermittent injection of prepolymer in a pressurized fluidized bed, 25
Inverse problem
assessment of numerical solution approaches to the inverse problem for grinding systems: Dynamic population balance model problems, 257

Latex
sedimentation of a polystyrene latex floc, 129
Loading capacity
flow characteristics of loosely compacted macroporous microsponge® polymeric systems, 15
Lubricating property
pseudopolymorphism and lubricating properties of magnesium stearate, 109
Lumped-parameter analysis
agglomerate strength measurement using a uniaxial confined compression test, 5

Magnesium stearate
pseudopolymorphism and lubricating properties of magnesium stearate, 109
Metal powder production
a novel method for production of finely divided tin metal powders, 19
Microsponge system
flow characteristics of loosely compacted macroporous microsponge® polymeric systems, 15
Morphology
a study on talc ground by tumbling and planetary ball mills, 121
Motion
Initial tests on a microwave monitor for industrial fluidized beds, 287
Moving bed
mechanics of arching in a moving-bed standpipe with interstitial gas flow, 181

NMR imaging
NMR imaging and hydrodynamic analysis of neutrally buoyant non-Newtonian slurry flows, 99
Non-Newtonian fluid
NMR imaging and hydrodynamic analysis of neutrally buoyant non-Newtonian slurry flows, 99
Non-Newtonian polymer solutions
settling velocities of non-spherical particles in non-Newtonian polymer solutions, 77
Non-spherical particles
settling velocities of non-spherical particles in non-Newtonian polymer solutions, 77

Packing
packing of fine powders subjected to tapping, 247
Particle agglomeration
a procedure to determine particle agglomeration in a fluidized bed and its effect on entrainment, 33
Particle image scope
microscope visualization of solid particles in circulating fluidized beds, 115
Particles
a probe for detecting the movement of dark-colored particles, 173
Particle size distribution
in situ visualization of coal particle distribution in a liquid fluidized bed using fluorescence microscopy, 239
Particulates feeder
moving cup particulates feeder used in laboratory FCC unit, 281
Planetary mill
a study on talc ground by tumbling and planetary ball mills, 121
Polyethylene
intermittent discharge of powder from a pressurized fluidized bed of polyethylene powder, 43
Polymerization
surface modification of fine inorganic powders by wet grinding with soapless emulsion polymerization, 159
Polystyrene
sedimentation of a polystyrene latex floc, 129

Porosity
evolution of porosity during thin plate rolling of powder-based porous aluminum, 67
Powder discharge
intermittent discharge of powder from a pressurized fluidized bed of polyethylene powder, 43
Powders
surface modification of fine inorganic powders by wet grinding with soapless emulsion polymerization, 159
Prepolymer
intermittent injection of prepolymer in a pressurized fluidized bed, 25
Probe systems
a probe for detecting the movement of dark-colored particles, 173

Random packings
the size distribution of interstices in random packings of spheres, 231
Range of operation
a study of stable range of operation in multistage fluidised beds, 203
Rising velocity
microscope visualization of solid particles in circulating fluidized beds, 115

Sand
the effects of vibration upon wet sand on a vibrating plane with a horizontal line of action, 197
Sandpile
on the stress depression under a sandpile, 263
Sedimentation
sedimentation of a polystyrene latex floc, 129
Separation
separation and classification of fine hematite particles using a glass bead column bed, 137
Settling velocities
settling velocities of non-spherical particles in non-Newtonian polymer solutions, 77
Shear failure
the effects of vibration upon wet sand on a vibrating plane with a horizontal line of action, 197
Shear stress
the effects of vibration upon wet sand on a vibrating plane with a horizontal line of action, 197
Shear viscosity
shear viscosity behavior of flocculated suspensions, 165
Silos
investigation of the influence of wall stiffness on the stress ratio in mammoth silos, 213
Sintering
influence of high temperatures on particle adhesion, 273
Size distribution
the size distribution of interstices in random packings of spheres, 231
Slurry flow
NMR imaging and hydrodynamic analysis of neutrally buoyant non-Newtonian slurry flows, 99
Solids pressure drop
a study of stable range of operation in multistage fluidised beds, 203
Spheres
the size distribution of interstices in random packings of spheres, 231
Standpipe
gas–solid flow in a novel standpipe, 91
mechanics of arching in a moving-bed standpipe with interstitial gas flow, 181
Stress
on the stress depression under a sandpile, 263
Stress ratio
investigation of the influence of wall stiffness on the stress ratio in mammoth silos, 213
Structural change
a study on talc ground by tumbling and planetary ball mills, 121

Tabletting
improvements in flowability and compressibility of pharmaceutical crystals for direct tabletting by spherical crystallization with a two-solvent system, 151
Talc
a study on talc ground by tumbling and planetary ball mills, 121
Theoretical model
shear viscosity behavior of flocculated suspensions, 165
on the stress depression under a sandpile, 263
Thin plate rolling
evolution of porosity during thin plate rolling of powder-based porous aluminum, 67
Tin powder
a novel method for production of finely divided tin metal powders, 19
Tumbling mill
a study on talc ground by tumbling and planetary ball mills, 121

Vibration
the effects of vibration upon wet sand on a vibrating plane with a horizontal line of action, 197

Wall stiffness
investigation of the influence of wall stiffness on the stress ratio in mammoth silos, 213
Wet grinding
surface modification of fine inorganic powders by wet grinding with soapless emulsion polymerization, 159

X-ray diffraction
a study on talc ground by tumbling and planetary ball mills, 121